



## Introduction to Computer Science

### Week 1: Impact of Digital Technology

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# WELCOME ON BOARD!

## Introduction of CS

1. Course#: **306005001**
2. Lecture language: : English-taught
3. All the materials will be uploaded to **Moodle**
4. Friday afternoon @ 逸仙5樓資管電腦教室
5. Lecture (13:10-15:00) + Lab (15:10-16:00)

→ The lab session is designed for you to practice the course materials and work on your lab assignment with guidance available  
 → Stay for the full lab period rather than leaving early, so you can complete the exercises, ask questions, and get feedback in real time

A	06:10-07:00
B	07:10-08:00
1	08:10-09:00
2	09:10-10:00
3	10:10-11:00
4	11:10-12:00
C	12:10-13:00
D	13:10-14:00
5	14:10-15:00
6	15:10-16:00
7	16:10-17:00
8	17:10-18:00

## Contact Info

### Instructor:

- ▶ 簡士鎰 James (sychien@nccu.edu.tw)

### TAs:

- ▶ 楊鈺翎: 113356007@g.nccu.edu.tw
- ▶ 劉祐辰: 114356009@g.nccu.edu.tw
- ▶ 陳家祥: 110208061@g.nccu.edu.tw
- ▶ 鄭建捷: 111306086@g.nccu.edu.tw

收件者	簡士鎰 sychien@nccu.edu.tw
主旨	Intro2025: Questions about final project

All emails to us about this class must contain **Intro2025** in the subject line to be read

- ▶ **Intro2025: Questions about final project**
- ▶ Email without this info might be deleted by spam filters
- ▶ Office hours: by appointment

Course Info...

So.. what is this course about...?

WHY should I take this course?

WHAT will I learn from this course?

HOW can I apply what I have learned?

## Scope of Course

Intro to Computer Science



### Practical Practices

1. In-class lab and assignment front-end web development (HTML, CSS & JavaScript)
2. Online presentation for your final group project

and Programming

### Hardware Components

1. Computer hardware
2. Operating system
3. Network

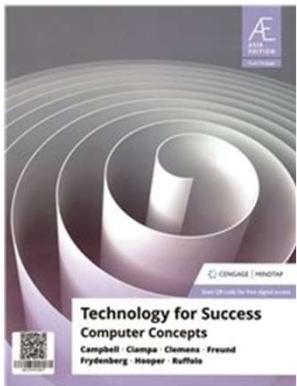
final  
project  
midterm

1. Software development
2. Communication Protocol
3. Security

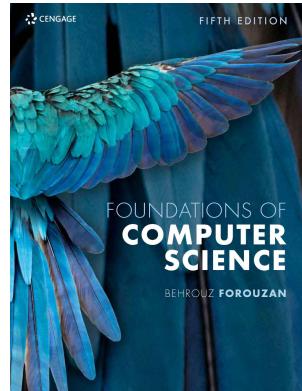
### Software Applications

## Suggested Textbooks

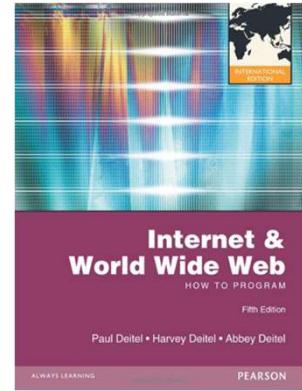
Technology for Success:  
Computer Concepts



Foundations of Computer Science



Internet and World Wide Web  
How To Program



## Academic Dishonesty #ReaditCarefully

1. All graded work that you do for this course must be the sole result of your own efforts unless directed otherwise.
2. You may not do work for another student nor may any student copy or plagiarize someone else's work.
3. You may not assist, facilitate or enable another student's academic dishonesty, even if unintentional.
4. Severe penalties will be imposed on all parties involved, and any grade assigned due to academic dishonesty will not be dropped!
5. If you have any questions on this matter, contact the Instructor.

## Special Circumstances

The Instructor strongly endorses the University's policy on disabilities

- If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact the Instructor and Disability at the university

**Feel free to let us (instructor or TAs) know if you need any assistance**

Week	Tentative Syllabus - Topics	TA Sessions	Assignment
1 (9/5)	Impact of digital technology	Brief Intro	
2 (9/12)	Computer Hardware	Hardware	
3 (9/19)	Operating System I	 1. Intro GitHub 2. Website Template	1. Create an account to access GitHub 2. Upload the template file to GitHub <b>*Submit Team Members (up to 4 students)</b>
4 (9/26)	*Online Session Operating System II	 *Online Session Prompt Practice: Deep Dream Generator	1. Create and revise figures on Midjourney 2. Upload the files to GitHub <b>(5%)</b>
5 (10/3)	*Online Session Internet & Network I & II	 <b>Distance Learning</b>	*Online Session MS Excel I 1. Excel VBA I <b>(2%)</b> 2. Upload the Excel file to your GitHub
6 (10/10)	[National Holiday]		
7 (10/17)	*Online Session Internet & Network III Digital Security and Privacy	 <b>Distance Learning</b>	*Online Session MS Excel II 1. Excel VBA II <b>(3%)</b> 2. Upload the Excel file to your GitHub
8 (10/24)	[National Holiday]		
9 (10/31)	<b>Midterm (30%)</b>		<b>*Submit Final Project Topics (Propose 3 Topics)</b>

Week	Tentative Syllabus - Topics	Lab	Assignment
10 (11/7)	Front-end Programming Language: HTML	HTML	HTML Exercise Lab (2%) + HW (5%)
11 (11/14)	Front-end Programming Language: CSS	CSS	CSS Exercise Lab (2%) + HW (5%)
12 (11/21)	<b>Final Project Discussion</b>  <b>*Discussion Sheet (5%)</b>		<u>Supplementary Video Materials</u>  <b>Topic: Intro to AI</b> Prof. Justin Ku @ University of North Texas  <b>Topic: Weaponized disinformation</b> Prof. Chiaoning Su @ Oakland University  <b>Topic: Intro to Data Science</b> Prof. Sue Yeon Syn @ Catholic University of America
13 (11/28)			
14 (12/5)	Front-end Programming Language: JavaScript I	JavaScript I	JS Exercise Lab (2%) + HW (5%)
15 (12/12)	Front-end Programming Language: JavaScript II	JavaScript II	JS Exercise Lab (2%) + HW (5%)
16 (12/19)	<b>Final Project Presentation (30%)</b>		<b>Online Presentation: Gather Town</b>

## Grading

### Lab + Homework 38%

- Deep Dream Generator (5pts)
- MS Excel VBA (5pts)
- HTML\*1, CSS\*1 and JavaScript\*2 (Lab + HW: 7pts each)

### Midterm 30%

- Multiple choice questions, true/false questions, open questions

### Final Group Project 35% (Details shown on next page)

- Discussion sheet (5pts) + Presentation (30pts)

Bonus: Course participation: 5% (just in case...)

*\*Total up to 108 pts*

## Final Group Project

### Topic: AI for Cultural Heritage or Elder Well-Being

1. Find someone who has similar interests for the final project
  - Form your team **wisely**, up to **4** students in a team
2. Discuss with your teammates and propose **3** potential topics
  - Effectively utilize the guest lectures' materials to your final project
3. Submit your team info and prioritize the proposed topics by **Oct. 31**
4. Final project discussion on **Nov. 21 & Nov. 28**
  - Prepare the discussion sheet to introduce your topics to the instructor and TAs
5. Demo day: final group presentation on **Dec. 19**
  - **Poster + Video:** provide your own opinions and solutions; cite your references- **DO NOT** copy and paste
  - **Between-group evaluation:** grade by the instructor, TAs and other groups
  - **Within-group evaluation:** grade by your team members, no free rider policy

### Calculation of your final project score is as follows

$$\text{Temp_Final_Score} = \textcolor{orange}{A} * 0.5 + \textcolor{red}{B} * 0.5$$

#YouDoTheMath

**A:** average (TA + Teacher)

**B:** average (other groups) #between-group

- e.g., **90/100**\*0.5+**86/100**\*0.5 = 45 + 43 = 88

$$\text{Final_Score} = (\text{Temp_Final_Score} * 0.7) + (\textcolor{green}{C} * \text{Temp_Final_Score} * 0.3)$$

**C:** average (your group members) #within-group

- e.g., 88\*0.7+**8/10**\*88\*0.3 = 61.6 + 21.12 = **82.72**

# Final Project Topic

## Topic: AI for Cultural Heritage or Elder Well-Being

- How to use AI for cultural heritage (popularization, promotion)
- How to use AI for elder care (daily companion, healthcare, fraud prevention)

\*bonus for proposals that bridge both (Cultural Heritage & Elder Well-Being)

### AI for Cultural Heritage

- *Oral History Auto-Curator*: Elders record local legends or memories using voice notes, and AI translates or clusters them by theme and generate story cards for visitors
- *AR Tea Tour Companion*: An app that overlays AI-generated tea culture facts during a self-guided walk around tea farm (e.g., Wenshan) and answers voice questions in real time

### AI for Elder Care

- *Emotion-Aware Daily Chatbot*: AI chatbot uses conversation cues (mood, energy, keywords like "tired," "alone," or "pain") to detect early signs of depression or illness
- *Fraud Prevention Chat Companion*: AI chatbot analyzes suspicious messages or calls and explains common scam signs in plain language

### AI AND DISEASES

Disease spread prevention with Artificial Intelligence

Group
16

**OVERVIEW**

In this presentation, we will explain how AI can help preventing disease from spreading in the human society, mainly using AI for tracking human activities and generating the information of how disease will likely to spread alongside it.

**USAGE OF AI**

Bluedot, the first AI to detect the COVID-19 outbreak, identified unusual pneumonia cases in Wuhan on December 31, 2019, by analyzing local news, health data, and flight patterns. It predicted the virus's global spread through air traffic analysis, alerting governments and health officials days before official announcements.

HOW IT WORKS
PROBLEM

It is speculated that they may have utilized natural language processing models to analyze news, weather data, and flight information. By leveraging spatiotemporal data models to analyze flight patterns, they were able to alert the public and healthcare institutions earlier than official announcements. Subsequently, they also used machine learning classification and prediction models, federated learning methods, expert validation, and hybrid models to provide potential scenarios for the virus's evolution and outbreak pathways. These findings were cross-referenced with experts to identify the most probable situations.

AI analysis may require monitoring the movements of specific groups, which could infringe on personal privacy.

- The public may doubt the accuracy and transparency of AI systems, leading to reduced trust in their usage.

FUTURE
SOLUTION

More accurate models for predicting infections disease outbreaks.

- Early detection capabilities for unknown viruses.
- Personalized treatment and prevention plans for diseases.

**FURTHER READING**

- 额外输入需要的数据，AI如何找出最高风险的读者？
- AI如何帮助识别未知的新冠病毒在武汉、中国，潜在的国际传播通过商业航空旅行。

### AI CREDIT SCORING - CREDIT RISK ASSESSMENT

人工智能在信用评分中的作用

INTRODUCTION
ZEST

**INTRODUCTION**

**ZEST**

**AI Credit Risk Models**

Using machine learning to analyze multiple data sources to predict credit risk.

**Advantages:**

- Fast Detection
- High Accuracy
- Automation and Efficiency
- Fairness & Transparency

**Disadvantages:**

- Ensuring lending decisions comply with fairness principles and reduce bias.
- Zest AI is a startup company that needs to prove its technology can revolutionize credit scoring.

**DATA COLLECT&ENCODING**

**ONE-HOT ENCODING**

Binary Encoding

Concept: Converts categories into numeric values, then encoding them into binary values by decomposing them into multiple columns.

Pros: fewer columns, avoids correlation issues

Cons: less meaning for certain data; best for large categories

Applications: Applications involving many categories and need to reduce the number of columns.

**MULTIPLE MODELS**

**RANDOM FOREST MODEL**

**CARTBOOST**

Handles categorical features without prior knowledge.

Using statistics from categorical and numerical data.

Advantage: Handles missing values and categorical data automatically by adjusting data types during model tuning and reducing overfitting risks.

MODEL PERFORMANCE MEASURE
CONCLUSION

**Model Performance Measure**

		True Condition	
		Positve	Negative
Predicted Condition	Positve	True Positve (TP)	False Positive (FP)
Negative	False Negatve (FN)	True Negatve (TN)	True Negatve (TN)
<b>FALSE POSITIVE RATE</b>		TP/(TP+FP)	
<b>ACCURACY</b>		(TP+TN)/(TP+FP+FN+TN)	
<b>ELAPSED TIME</b>			
<b>ROC CURVE</b>			

**Conclusion**

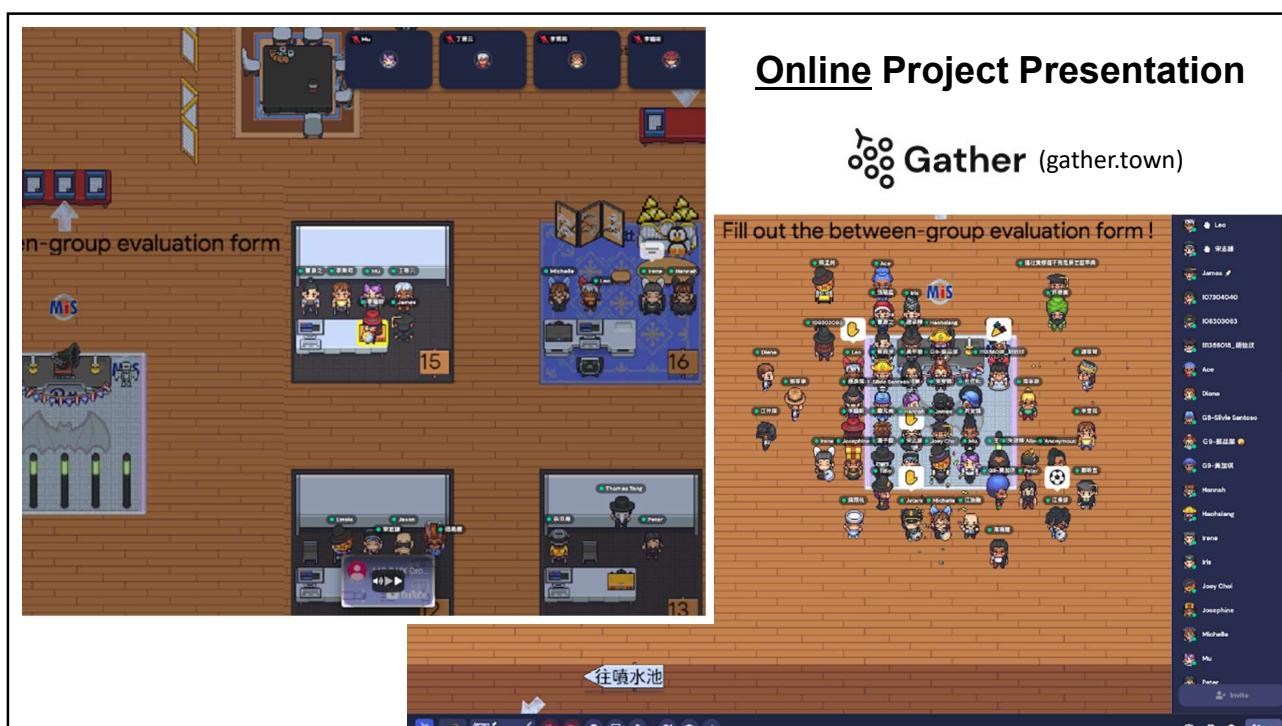
**Advantages of AI Credit Scoring**

- Broader Financial Access: By using big data and AI, helping those with no credit history.
- Comprehensive Risk Assessment: Integrates diverse data sources.
- Faster Loan Approval: Automated data processing and algorithms speed up credit evaluations.

**Future Outlook**

- Technological Progress: Advancing AI and machine learning.
- Diversified Data Sources: Expanding data types and sources.
- Balance Between Efficiency and Privacy: Ensuring data security while maintaining efficiency.

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# Week 1- Impact of Tech Hardware & Software

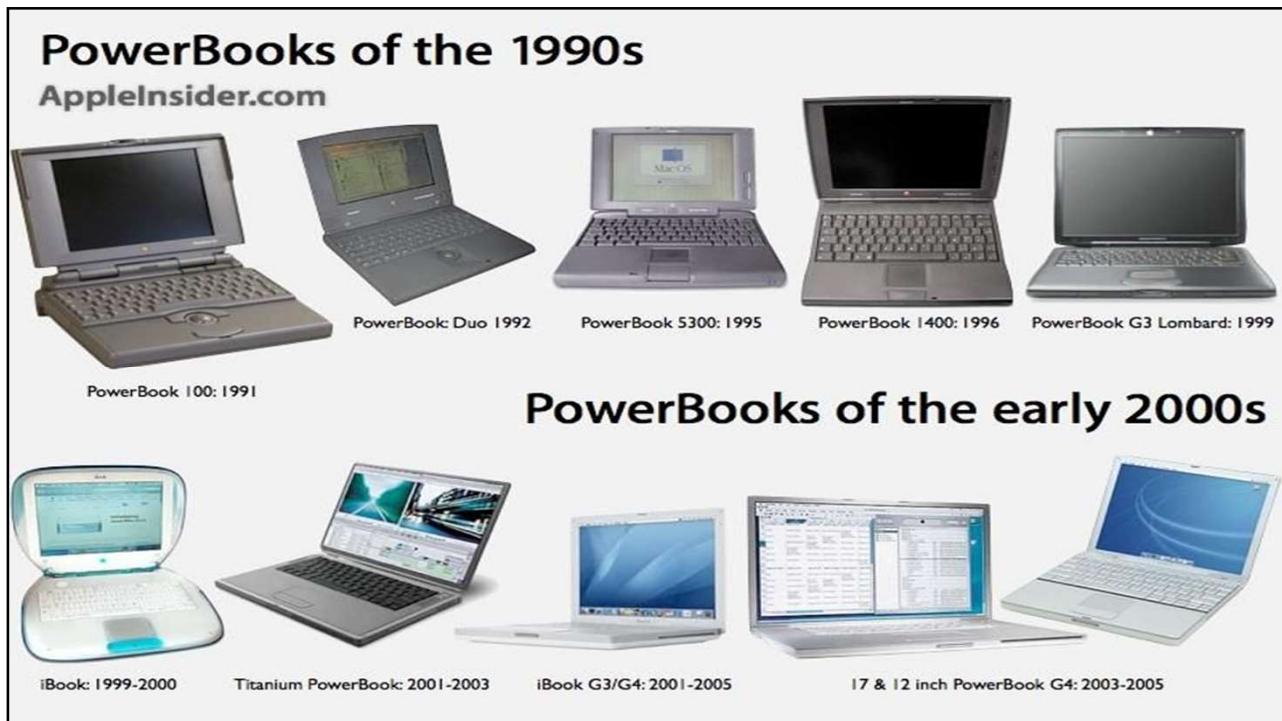
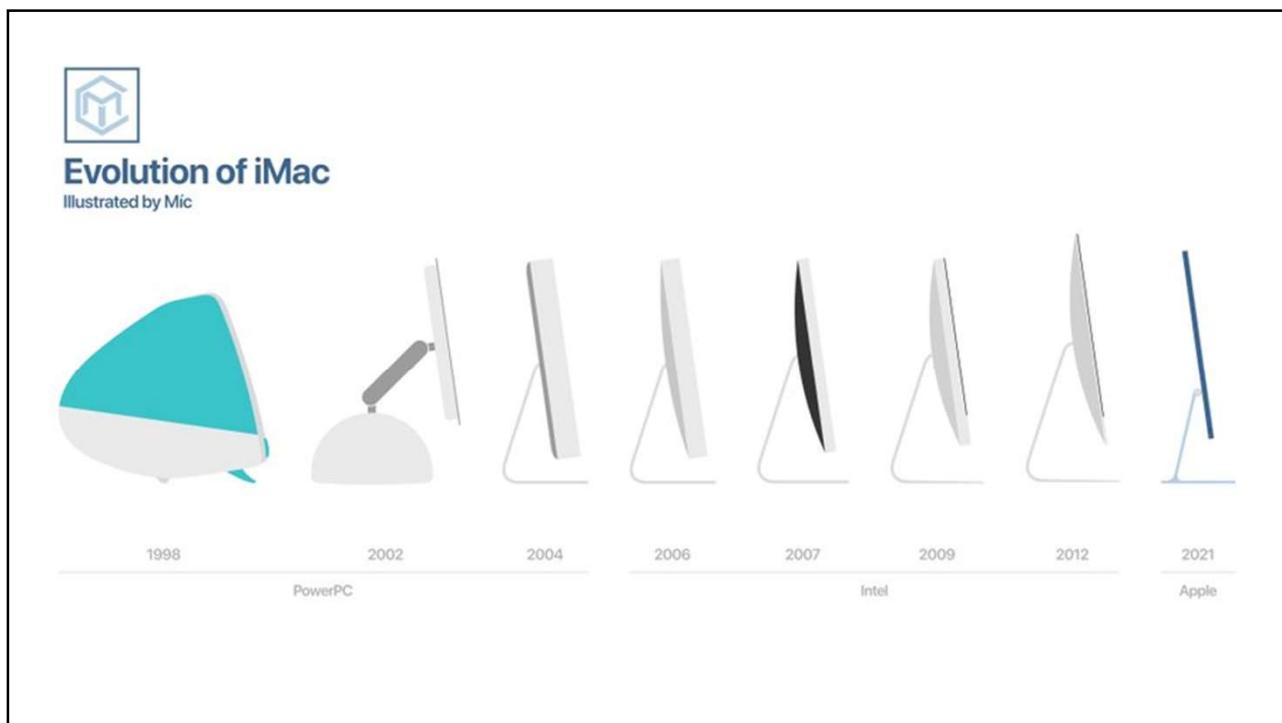




Source: [https://en.wikipedia.org/wiki/Floppy\\_disk#/media/File:Floppy\\_disk\\_2009\\_G1.jpg](https://en.wikipedia.org/wiki/Floppy_disk#/media/File:Floppy_disk_2009_G1.jpg)



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<https://images.app.goo.gl/hKwJVpypuW6u5GRKA>

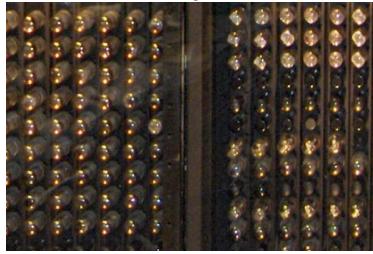


## ENIAC (launch in 1946)

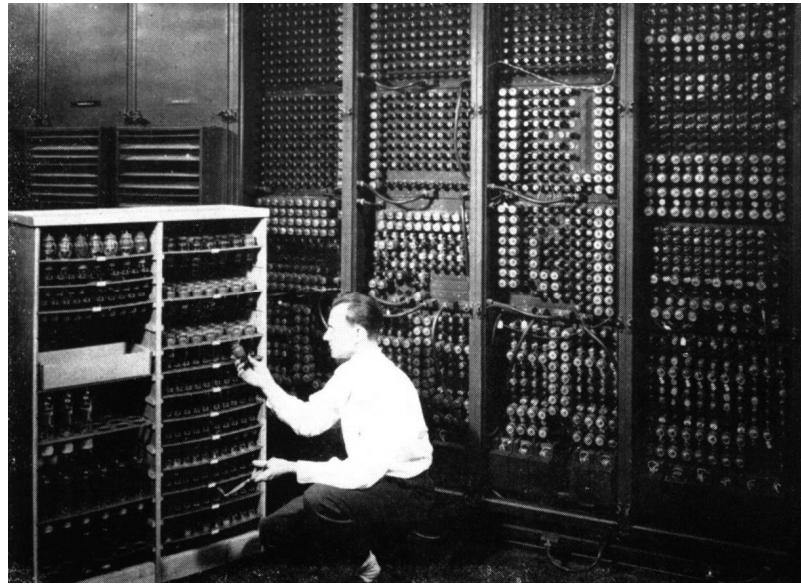
Electronic Numerical Integrator and Computer

First electronic general-purpose computer

- ▶ Calculate firing tables for the US Army Research Lab



Vacuum Tubes

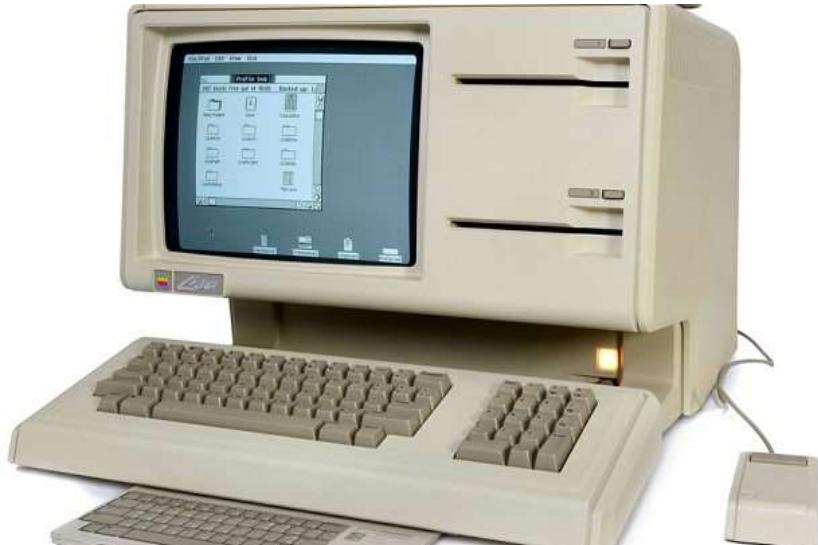


Source: <https://www.wired.com/2014/11/eniac-unearthed>

## Apple Lisa 1 (launch in 1983)

First ever computer to come with a **mouse**

- ▶ Auction for \$42,000 USD in 2014



Source: <https://www.telegraph.co.uk/technology/apple/10788057/First-computer-to-come-with-a-mouse-could-fetch-25000-at-auction.html>





### Going Mobile | The evolution of the cellphone

<b>1982</b> <b>Mobira Senator</b> Finnish company Mobira Oy, a precursor to Nokia, introduced its first car phone, the Mobira Senator NMT-450. It weighed about 22 pounds.	<b>1984</b> <b>Motorola DynaTAC 8000x</b> The first cellphone to be offered commercially hit the market priced at \$3,995 (\$9,237 in 2012 dollars) and weighed just under 2 pounds.	<b>1987</b> <b>Mobira Cityman</b> One of the world's first handheld phones, the Cityman weighed 28 ounces with the battery.	<b>1989</b> <b>Motorola MicroTAC</b> Initially manufactured as an analog cellphone, the MicroTAC was an early example of a flip phone, in which the mouthpiece folded over the keypad.	<b>1992</b> <b>Nokia 1011</b> The first digital handheld phone, the Nokia 1011 would become the company's best-selling phone ever.	<b>1993</b> <b>BellSouth/IBM Simon Personal Communicator</b> First phone with a touch screen and smartphone features (pager, calculator, address book, send/receive faxes, games and email). Cost about \$900.	<b>2000</b> <b>Ericsson R380</b> The first device marketed as a smartphone.	<b>2002</b> <b>BlackBerry 5810</b> Made by Research in Motion, the 5810 was a cellphone with organizer functions and a keyboard for thumbs; a wired headset was mandatory.	<b>2004</b> <b>Motorola Razr</b> Was part phone, part fashion accessory. In the Razr's first four years, Motorola sold more than 110 million units.	<b>2007</b> <b>Apple iPhone</b> Hundreds of people lined up outside Apple stores to buy the first iPhone, priced at \$499 (4GB) and \$599 (8GB).

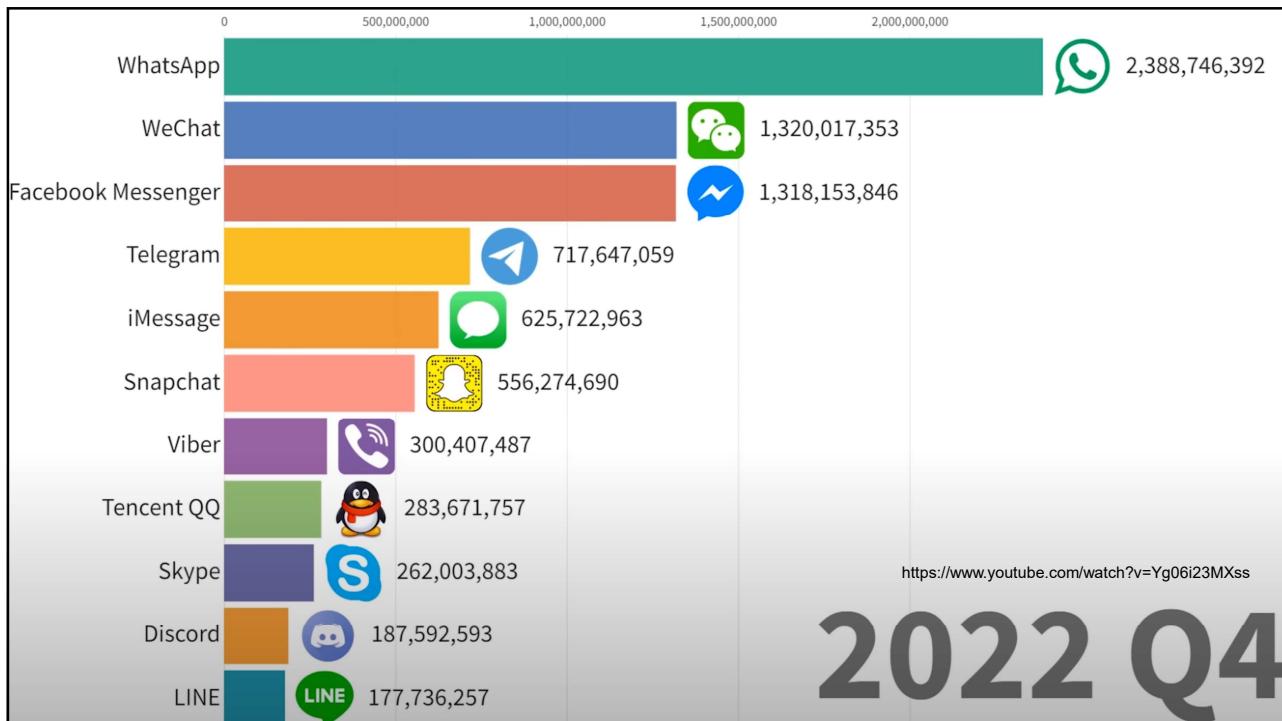
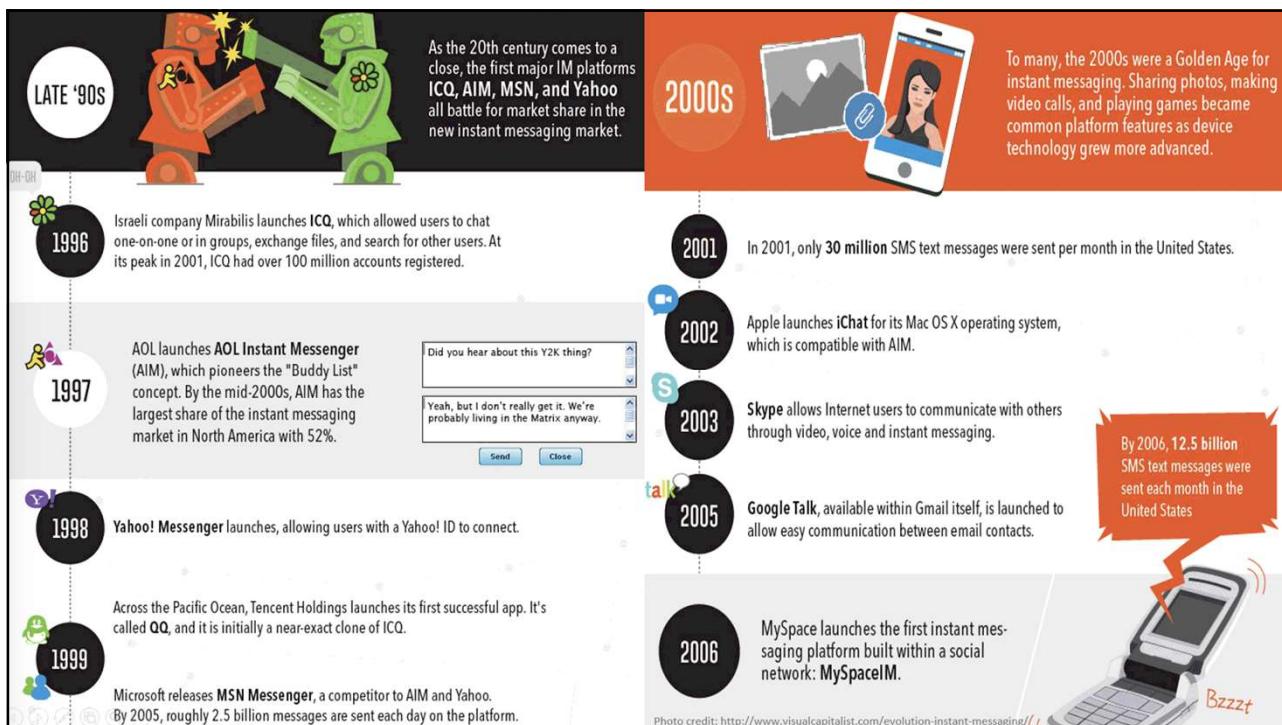
Source: WSJ research; Photos: Nokia (3), Motorola (3), BlackBerry, Ericsson, Associated Press

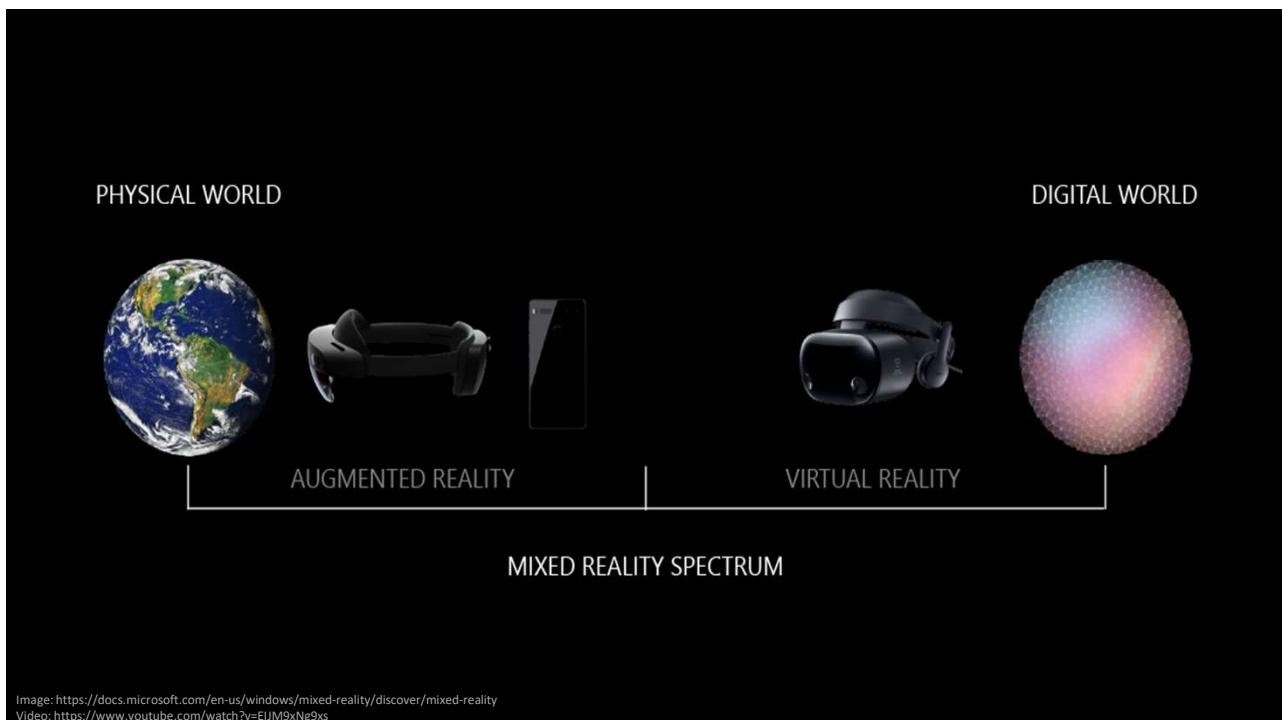
The Wall Street Journal

Photo credit: <http://stracatela.info/history-of-cellphones-timeline/this-pin-is-about-how-phones-started-back-then-from-now-tech-adv-history-of-cellphones-timeline/>









## Virtual Reality (VR)

Simulated experience that can be similar to or completely different from the real world



Image: [https://en.wikipedia.org/wiki/Virtual\\_reality](https://en.wikipedia.org/wiki/Virtual_reality)  
Video: <https://www.youtube.com/watch?v=VZyhQZSTIGQ>

## Augmented Reality (AR)

Objects that reside in the real world are enhanced by computer-generated perceptual information



Image: <https://images.app.goo.gl/58VXuvCNFvVoRvdW8>  
Video: <https://www.youtube.com/watch?v=XWbYSjdjnHg>



1985...

Image: <https://images.app.goo.gl/Mxh8GA3YM2FgPL5F6>

**NASA TechBriefs**  
Transferring Technology to  
American Industry and Government  
July/August 1988  
Volume 12 Number 7



**NASA's Virtual Workstation Shapes A VIVED Reality**

## Mixed Reality

### HoloLens 2

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[Article](#) [Talk](#)

From Wikipedia, the free encyclopedia

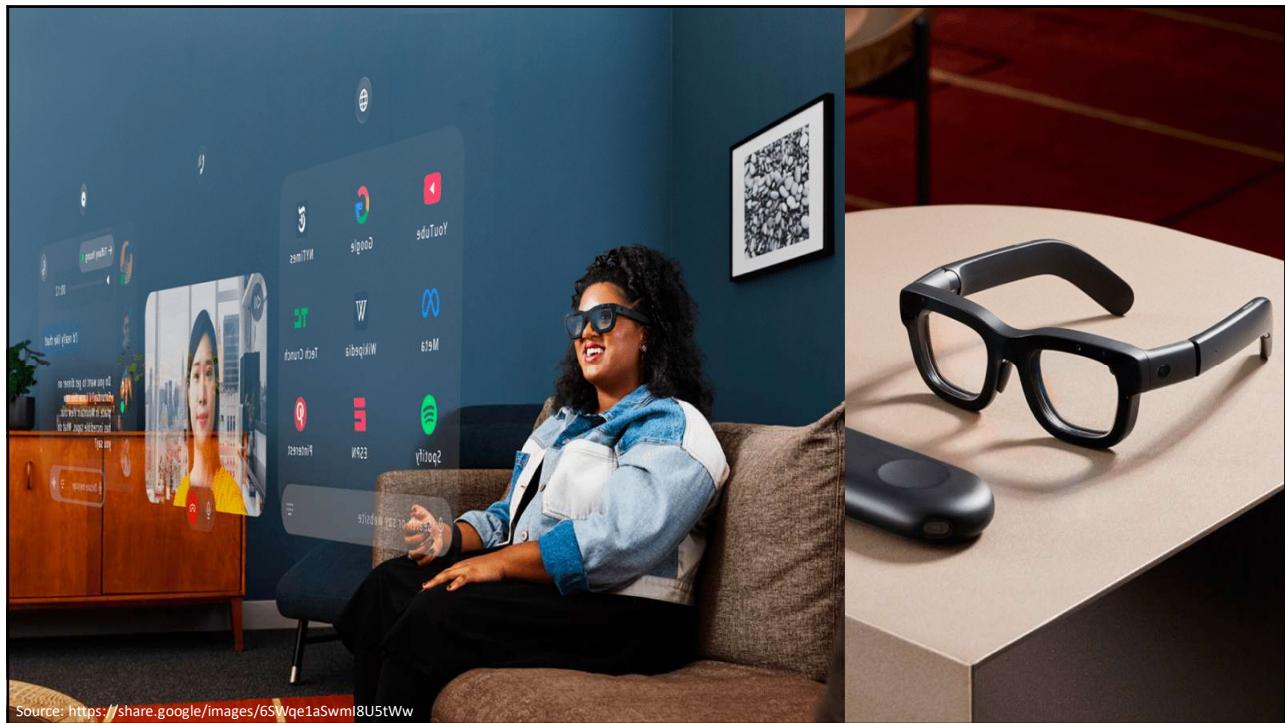
**Microsoft HoloLens 2** is a mixed reality head-mounted display developed and manufactured by Microsoft. It is the successor to the original Microsoft HoloLens. The first variant of the device, The HoloLens 2 enterprise edition, debuted on February 24, 2019. This was followed by a developer edition that was announced on May 2, 2019. The HoloLens 2 was subsequently released in limited numbers on November 7, 2019.<sup>[2]</sup>



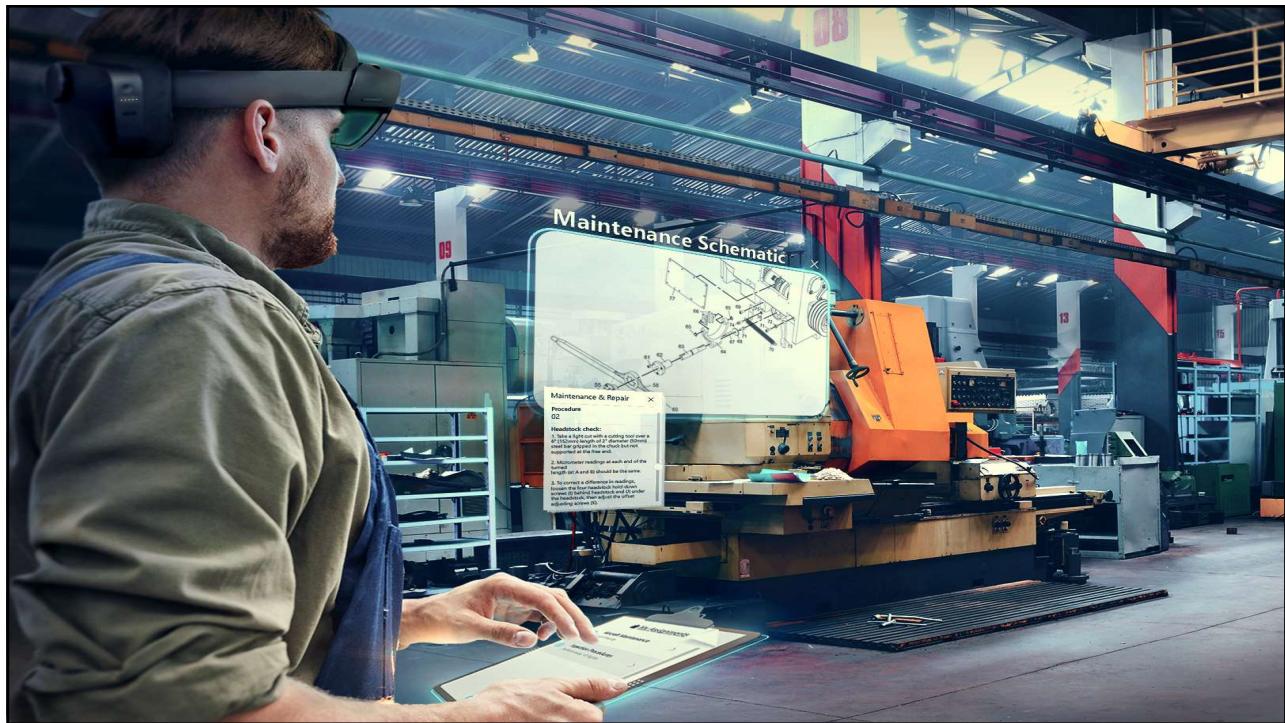
**Microsoft HoloLens 2**

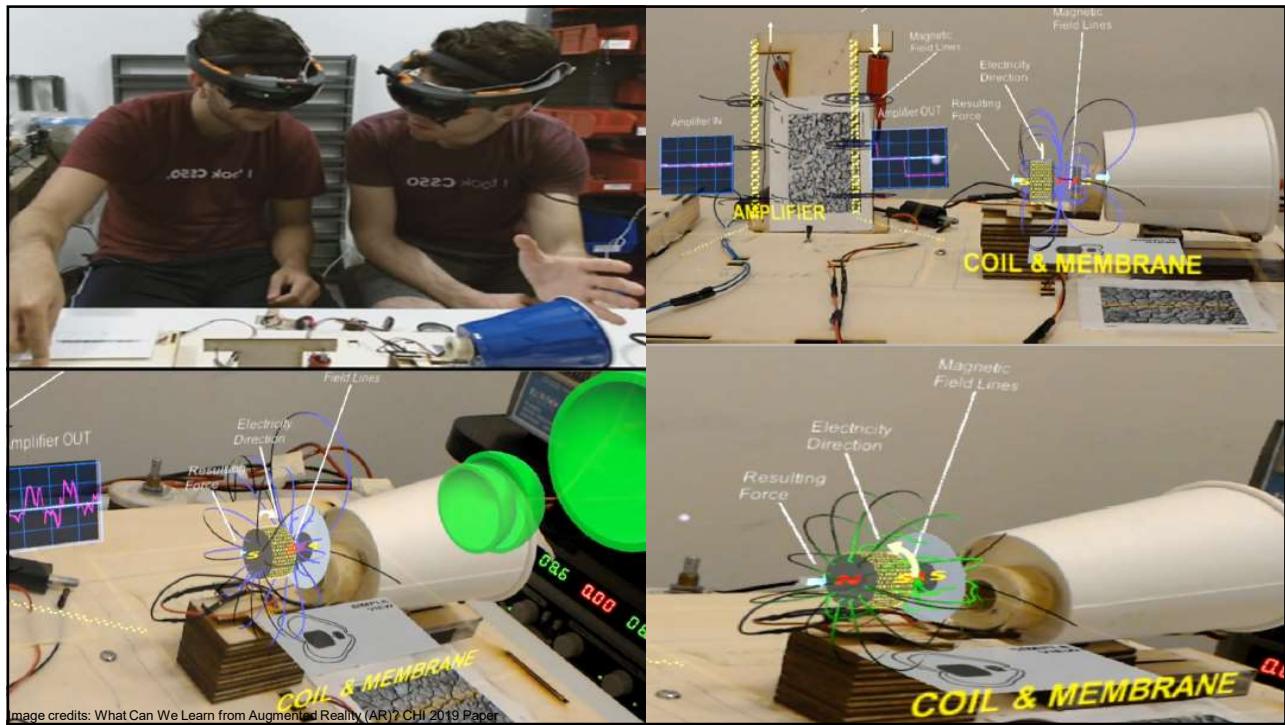


Developer Microsoft

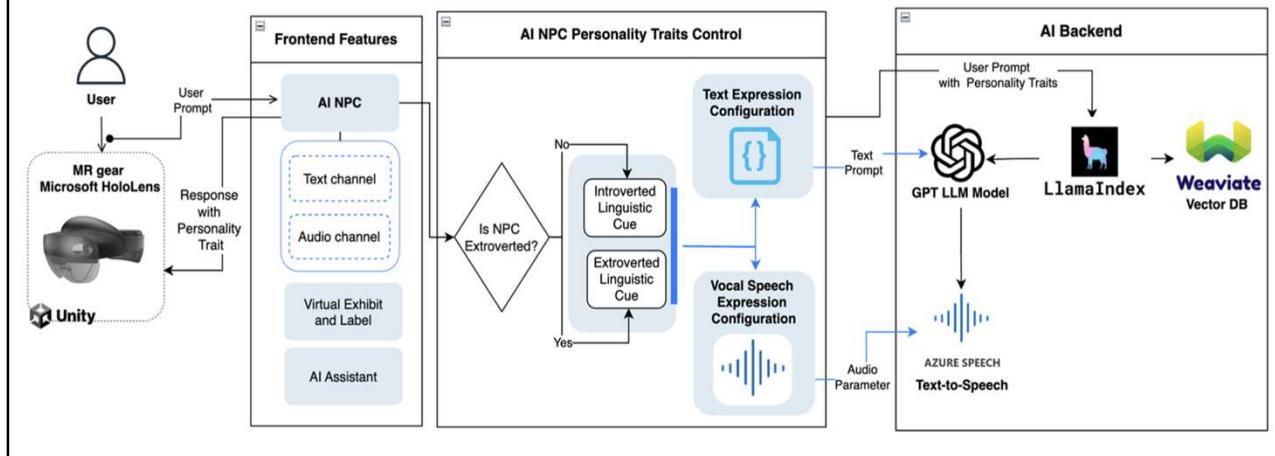


Source: <https://share.google/images/65Wqe1aSwml8U5tWw>





## AI+MR System (LLM-based NPC in MR app)



A6 保險天地 / 創新創業 | 2022. 11. 13 | 工商時報

## 政大資管團隊手語語音辨識 榄元

文／簡立宗

聽障人士在生活中諸多不便，在疫情中因口罩的隔閡更為突顯。在簡士鑑老師指導下，國立政治大學資管系曹子涵、朱芷伶、張郁斐、宋志謙及謝承霖同學組隊參加「第27屆大專校院資訊應用服務創新競賽」，以「SignLens—手語語音辨識於混合實境應用」，協助金融業服務聽障人士更貼心，獲得資訊應用組二之第一名。

目前常見的手語翻譯軟體大多僅提供手語轉換文字的單向溝通，然而順暢的溝通不能單仰賴其中一方。

團隊成員曹子涵表示，尤其是金融或醫療場域，由於涉及隱私，場景特殊，並不在政府手語溝通補助範圍之內，但許多專有名詞應用及資訊不平等

之情勢，常使聽障人士因溝通不順暢，導致個人權益損失。國外已有成功Hololens2裝置，將手語及語音轉換成文字，即時協助聽障人士與聽人之間更順暢的雙向溝通，團隊將此一創意本土化，實測應用準確度已達8成至8成5。

這是一場很盛大，很專業的競賽，團隊成員說，此次參與競賽的作品同時也是團隊畢業專題，最大的收穫是評審或其他老師的

精闢見解，團隊得以從原本日常手語對話之空泛目標，變得更為聚焦在金融場景，也瞭解不同產業應用開發時，應特別注意的問題，進一步精進畢業專題。尤其是在決賽的過程中，有機會看到同樣的技術，所發展出不同的新穎應用及看法，更多所啟發。

展望未來，希望透過訂閱服務，解決金融業聽障人士服務之痛點，將應用擴及醫療領域，甚至日常生活應用情境。

→ 國立政治大學之團隊獲資訊應用組第一名。  
圖／業者提供



（圖／業者提供）

## 台灣手語應用研討會 AI 出手 創譯無限

2023年3月11日(六)

臺灣師範大學綜合大樓202演講廳

台北市和平東路一段129號

年會

09:30 年會.理監事改選

會員

全體

歡迎喜好手語者參加  
報名請掃QRcode  
研討會不收費用  
提供研習時數證明



### 特邀演講

13:10 以手部關鍵點檢測輔助臺灣手語單詞教學  
淡江大學人工智慧學系游國忠教授研究團隊

13:40 SIGNLENS—手語語音辨識於混合實境應用  
政治大學資訊管理學系簡士鑑教授研究團隊

聽障使用者：<https://youtu.be/uKOOXabd7uc>

（亞芳）

聽人使用者：<https://youtu.be/i75PnvjS0q0>

（臻貞）

高鳳鳴

14:50 聽損家庭劉毛及視訊親子手語教學分享



### 研究論文

15:40 台灣地區推動暨導覽之現況與經驗分享

林麗媚

16:00 視訊手語翻譯之需求分析-以譯聯網為例 魏如君、莊又蓉、廖梓涵

16:20 到底有多像？台灣手語詞彙的透明度與象似性初探 李信賢

主辦單位：台灣手語翻譯協會

協辦單位：

國立臺灣師範大學特殊教育中心

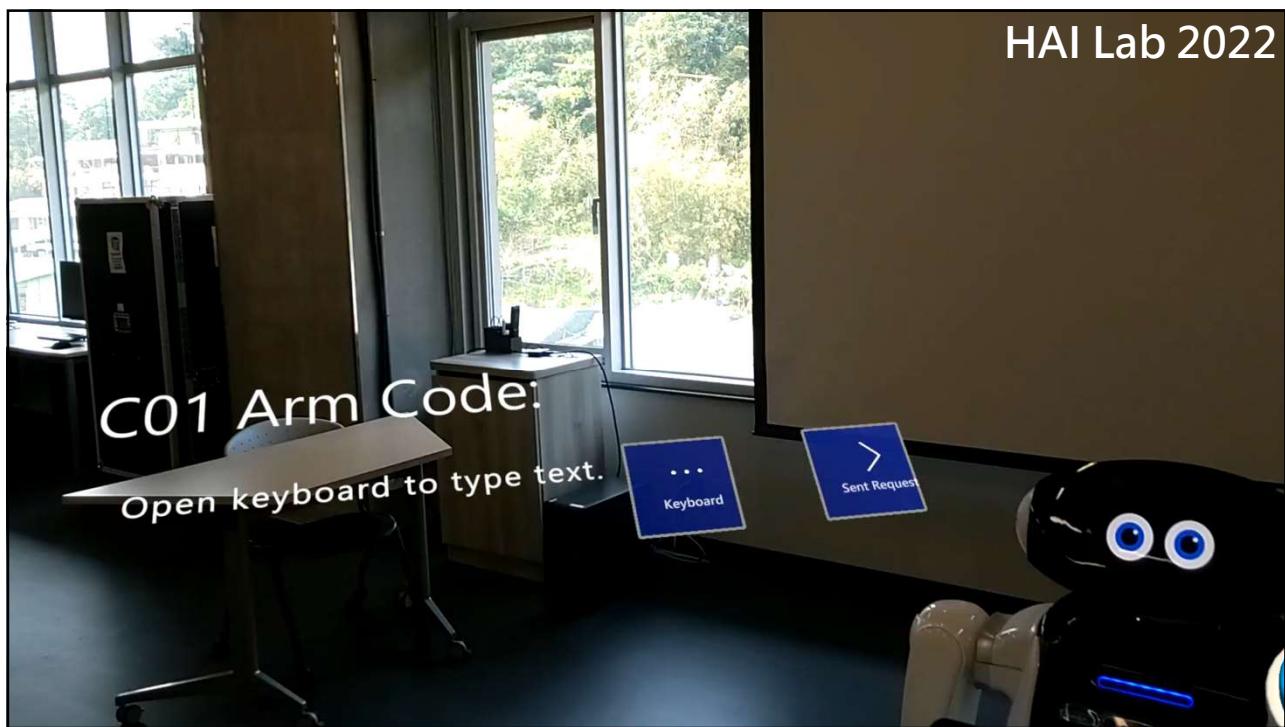


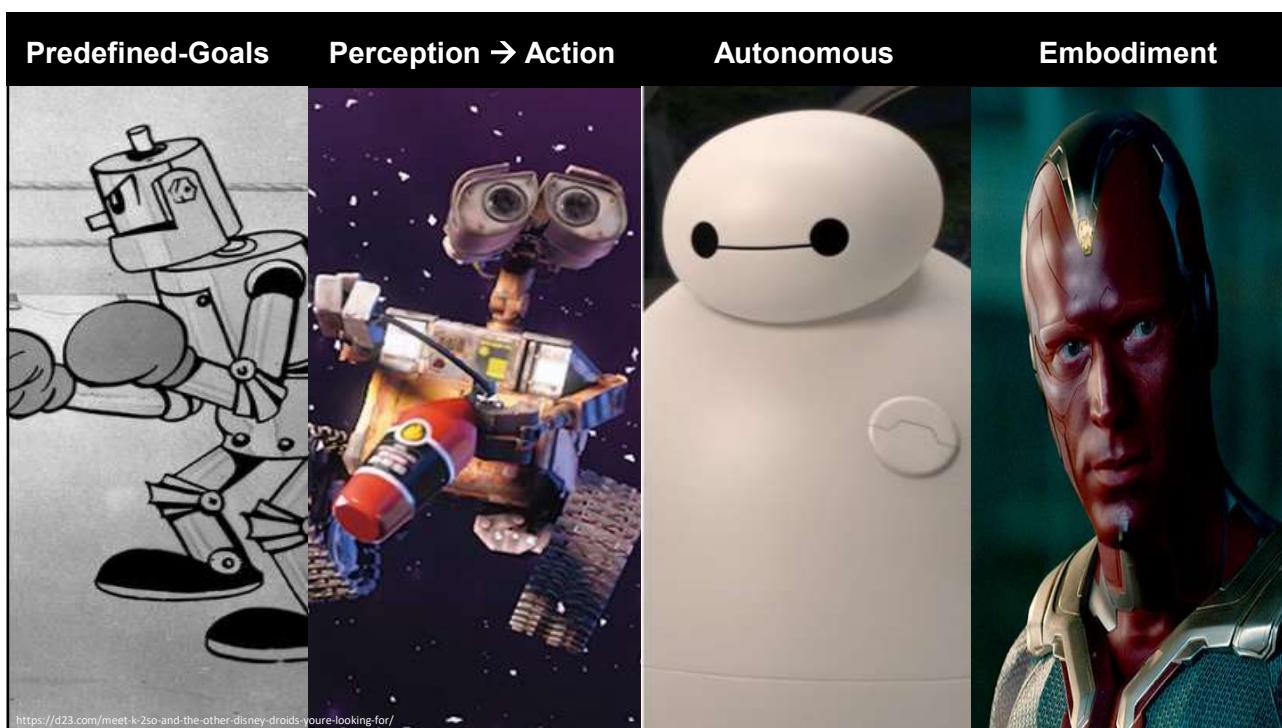


### e-Learning

### MR + Robot

Student Learning Benefits of a Mixed-Reality Teacher Awareness Tool in AI-Enhanced Classroom. 2018. Artificial Intelligence in Education





## Tortoises- 1<sup>st</sup> Autonomous Robot



## Industrial Robots

A robot used for manufacturing

- ▶ Automated, programmable and capable of movement on three or more axis



[https://en.wikipedia.org/wiki/Industrial\\_robot](https://en.wikipedia.org/wiki/Industrial_robot)



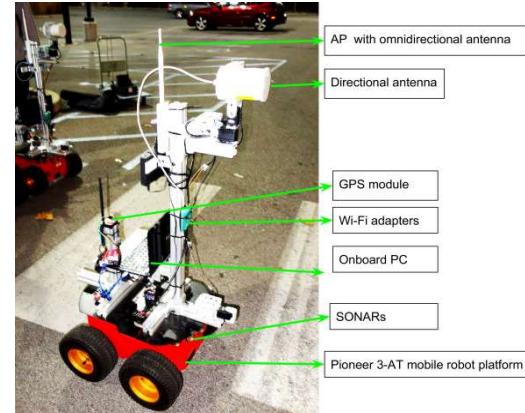
## Urban Search and Rescue Robots

A robot that has been designed for the purpose of searching and rescuing people

- ▶ Common situations are mining accidents, urban disasters, explosions, etc.
- ▶ Reduce personnel requirements, reduce fatigue, and access unreachable areas



911 world trade center attacks (2001)



[https://en.wikipedia.org/wiki/Rescue\\_robot](https://en.wikipedia.org/wiki/Rescue_robot)



Casper, Murphy, (2003). Human–Robot Interactions During the Robot-Assisted Urban Search and Rescue Response at the World Trade Center.

56





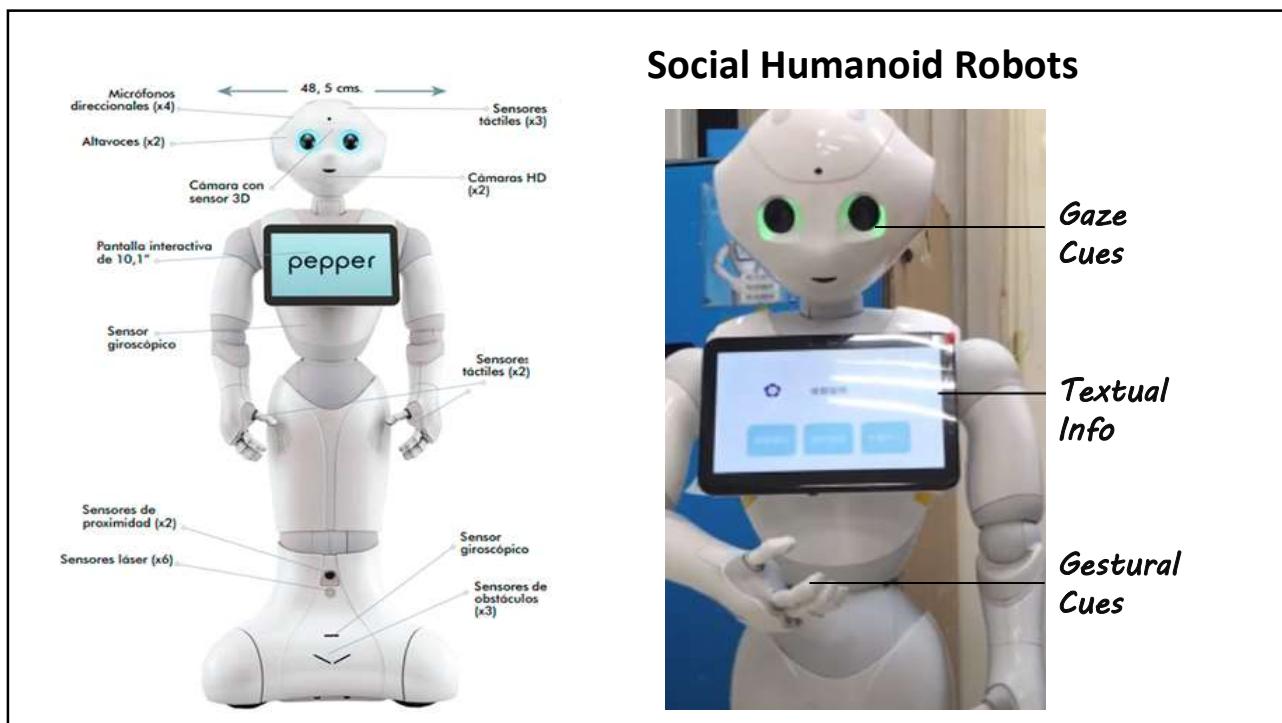
## Social Robots

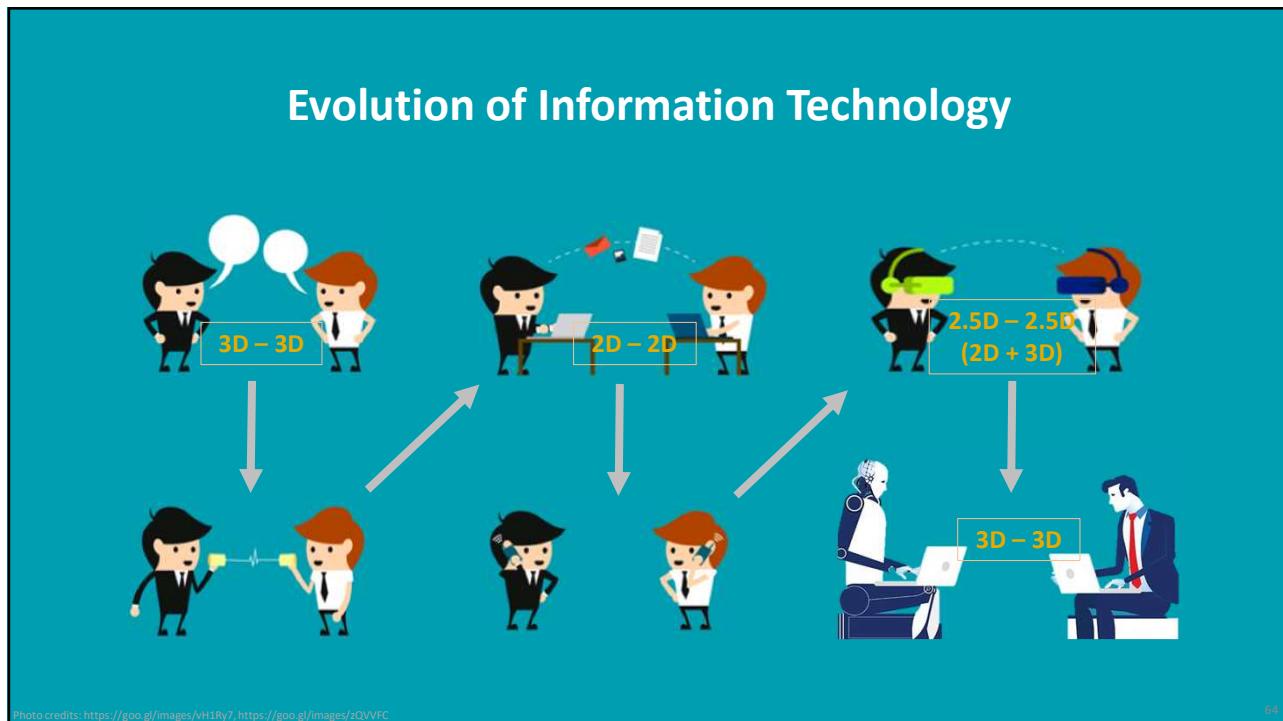
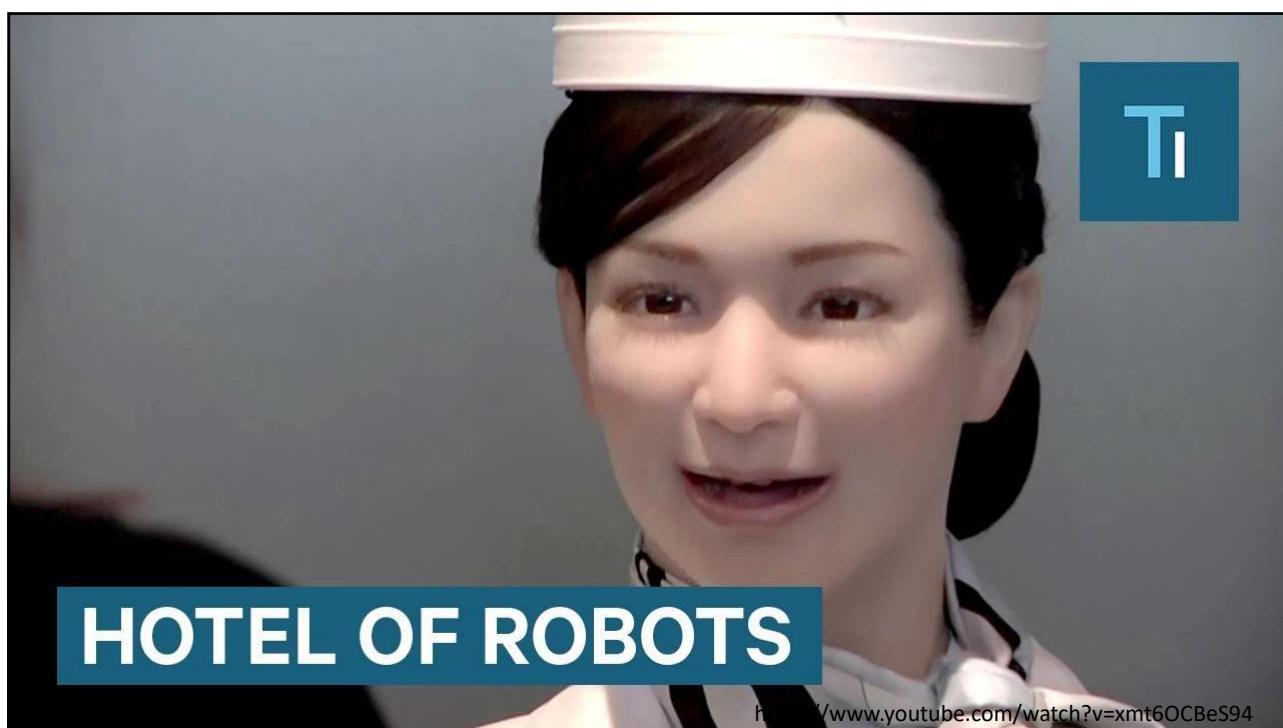
An autonomous robot that **interacts and communicates** with humans or other autonomous physical agents by following **social behaviors and rules** attached to its role

- ▶ Some social agents are designed with a screen to represent the head or face to dynamically communicate with users



<https://www.ccities.org/will-the-social-robots-in-tomorrow-s-consciousness-rely-on-the-same-old-personality-trait/>





## Artificial Intelligence

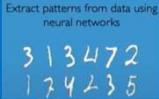
 Any technique that enables computers to mimic human intelligence. It includes *machine learning*

### Machine Learning

Ability to learn without explicitly being programmed  


A subset of AI that includes techniques that enable machines to improve at tasks with experience. It includes *deep learning*

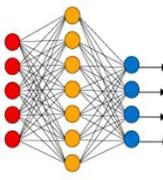
### Deep Learning

Extract patterns from data using neural networks  
  
 3 1 3 4 7 2  
 1 2 4 2 3 5

A subset of machine learning based on neural networks that permit a machine to train itself to perform a task.

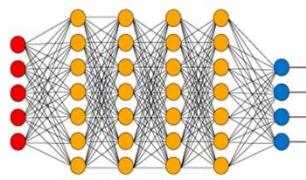
Source: microsoft.com & MIT Introduction to Deep Learning

Simple Neural Network



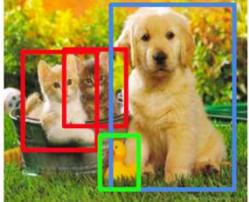
Input Layer      Hidden Layer      Output Layer

Deep Learning Neural Network

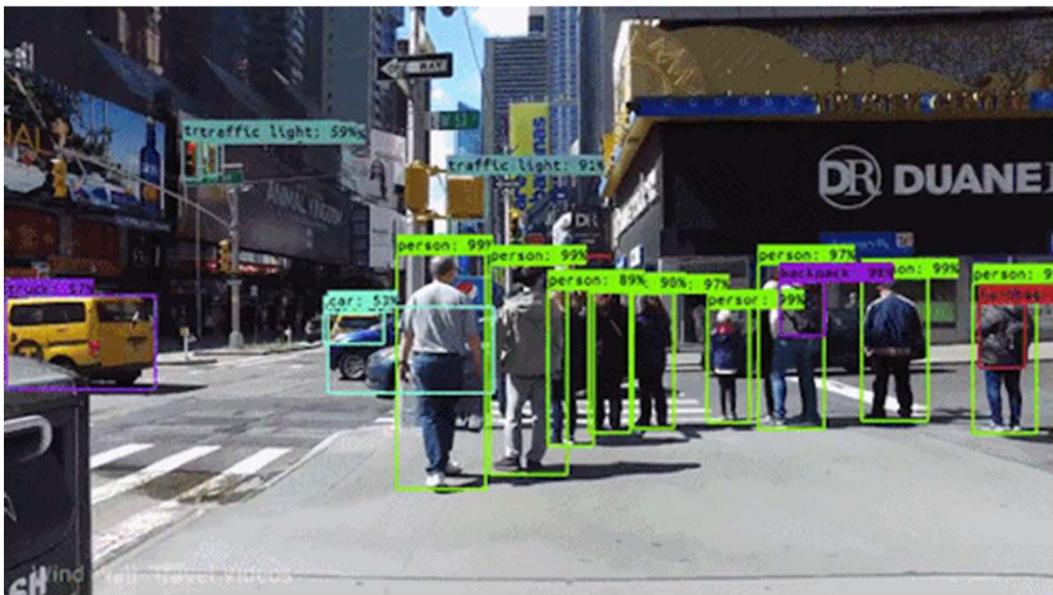


Input Layer      Hidden Layer      Output Layer

## Computer Vision

Classification	Classification + Localization	Object Detection	Instance Segmentation
			
CAT	CAT	CAT, DOG, DUCK	CAT, DOG, DUCK

Single object                          Multiple objects



Source: <https://towardsdatascience.com/everything-you-ever-wanted-to-know-about-computer-vision-heres-a-look-why-it-s-so-awesome-e8a58dfb641e>

## Deepfake - AI is a double-edged sword

Empower the deaf with sound vs. Generate fake videos



<https://news.berkeley.edu/2019/06/18/researchers-use-facial-quirks-to-unmask-deepfakes/>



## TO-DO: Priority for taking this course

1. MIS department
2. Double major, minor, or programs
3. College of commerce
4. Others

- Q2. 是否有加簽的順序?  
 > 有，加簽將根據下方順序，並以高年級為優先  
 >> 1. 資管系同學  
 >> 2. 目前正在雙主修、輔系、學程的同學  
 >> 3. 商學院同學  
 >> 4. 其他學院系所，或是欲轉系、雙主修、輔系、學程的同學



In case you are not in the class roster yet #加簽加簽加簽

<https://ppt.cc/f4cOrx>

\*you will have a better chance of registering for the EN course (306005011)

學號	姓名	email	系所	年級
A123456789	Homer Simpson	Homer.Simpson@nccu.edu.tw	資管	大4
目前正在 雙主修/輔系資管	目前正在參加學程	我要加簽306005001 (Fri 9am-12pm)	我要加簽306005011 (Fri 1pm-4pm)	
	金融科技學程	V	V	

## TO-DO: Final Project

1. Find your teammates and form the team wisely
  - Up to 4 students in a team
  - Submit your team info (by Sep 19)
2. Discuss with teammates
3. Submit and prioritize the 3 proposed topics (by Oct 31)



<https://ppt.cc/f589tx>

IntroToCS_2025_EN		
Name	Student ID	Email
Homer Simpson	112554141	Homer@simpson.com
Marge Simpson	112554142	Marge@simpson.com
Lisa Simpson	112554143	Lisa@simpson.com
Bart Simpson	112554144	Bart@simpson.com
Topic-1:	<a href="#">How AI Can Be Applied in Managing Global Supply Chains</a>	
Topic-2:	<a href="#">Timely Fraud Alerts for Protection</a>	
Topic-3:	<a href="#">Educating Users on Mobile Security</a>	